

N2XS2Y 6/10 kV, 12/20 kV, 18/30 kV

Copper core, XLPE insulated, PE sheath



Cable structure

- Round bare copper core, stranded according to HD 383, IEC 60228
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE)
- Insulation thickness: 6/10 kV = 3,4 mm; 12/20 kV = 5,5 mm; 18/30 kV = 8,0 mm
- Outer semi-conducting coating spliced with the insulation
- Tape of conductive material
- Screening of copper wires with one or two copper tapes formed helically
- Wrapping with non-conducting tape
- Sheath of PE compound, color black, sheath thickness 2,5 mm

Technical data

- XLPE-insulated power cable according to DIN VDE 0276 part 620, HD 620 and IEC 60502
- **Temperature at conductor** max. +90 °C
- **Temperature** during installation from -20 °C to +70 °C
- **Temperature** after installation max. +70 °C
- **Nominal voltages** U_0/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** 6/10 kV = max. 12 kV
12/20 kV = max. 24 kV
18/30 kV = max. 36 kV
- **Test voltage a.c.** for 6/10 kV = 21 kV up to 5 min.
12/20 kV = 42 kV up to 5 min.
18/30 kV = 63 kV up to 5 min.
- **Minimum bending radius** approx. 15× cable diameter

Application

Cable suitable for installation in cable ducts, power plants as well as for outer laying into earth, water or for installation in distribution boards. Due to its good shaping characteristics, this cable can also be laid even in difficult line guideways. To avoid the influence of the outer interferences, an adherent semi-conductive layer is extruded between the conductor and the insulation.

Part No.	Number of cores × core cross section [mm²]		Approx. outer Ø min. [mm]	Approx. outer Ø max. [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]	Current carrying capacity [A]	
							in earth (20 °C)	in air (30 °C)
N2XS2Y 6/10 kV								
0932480	1 × 35	rm/16	23	28	518	900	187	197
0932481	1 × 50	rm/16	24	29	662	950	220	236
0932482	1 × 70	rm/16	26	31	860	1200	268	294
0932483	1 × 95	rm/16	27	32	1098	1450	320	358
0932484	1 × 120	rm/16	29	34	1340	1700	363	413
0932485	1 × 150	rm/16	30	35	1622	1950	405	468
0932486	1 × 150	rm/25	30	35	1725	2050	409	470
0932487	1 × 185	rm/16	32	37	1958	2350	456	535
0932488	1 × 185	rm/25	32	37	2059	2400	456	535
0932489	1 × 240	rm/16	34	39	2486	2900	526	631
0932490	1 × 240	rm/25	34	39	2587	2950	526	631
0932491	1 × 300	rm/25	36	41	3163	3550	591	722
0932492	1 × 400	rm/35	40	45	4234	4500	662	827
0932493	1 × 500	rm/35	43	48	5194	5500	744	949
N2XS2Y 12/20 kV								
0932494	1 × 35	rm/16	27	32	518	1150	189	200
0932495	1 × 50	rm/16	28	33	662	1300	222	239
0932496	1 × 70	rm/16	30	35	854	1350	271	297
0932497	1 × 95	rm/16	31	36	1094	1650	323	361
0932498	1 × 120	rm/16	33	38	1334	1900	367	416
0932499	1 × 150	rm/16	54	39	1622	2150	409	470
0932500	1 × 150	rm/25	34	39	1723	2250	409	470
0932501	1 × 185	rm/16	36	41	1958	2550	461	538
0932502	1 × 185	rm/25	36	41	2059	2600	461	538
0932503	1 × 240	rm/16	39	44	2486	3100	532	634
0932504	1 × 240	rm/25	39	44	2587	3200	532	634
0932505	1 × 300	rm/25	41	46	3163	3800	599	724
0932506	1 × 400	rm/35	44	49	4234	4750	671	829
0932507	1 × 500	rm/35	47	52	5194	5800	754	953
N2XS2Y 18/30 kV								
0932508	1 × 50	rm/16	33	38	662	1350	225	241
0932509	1 × 70	rm/16	35	40	854	1600	234	299
0932510	1 × 95	rm/16	36	41	1094	1900	327	363
0932511	1 × 120	rm/16	38	43	1334	2150	371	418
0932512	1 × 150	rm/25	39	44	1723	2550	414	472
0932513	1 × 185	rm/25	41	46	2059	2900	466	539
0932514	1 × 240	rm/25	43	48	2587	3500	539	635
0932515	1 × 300	rm/25	46	51	3163	4150	606	725
0932516	1 × 400	rm/35	49	54	4234	5100	680	831
0932517	1 × 500	rm/35	52	57	5194	6200	765	953